

Figure 2 is an alignment of the sequence of ampC proteins from seven different organisms (*Aeromonas sobria* [SEQ ID NO: 3], *Enterobacter cloacae* [SEQ ID NO: 4], *Escherichia coli* [SEQ ID NO: 5], *Ochrobactrum anthropi* [SEQ ID NO: 6], *Pseudomonas aeruginosa* [SEQ ID NO: 7], *Salmonella enteritidis* [SEQ ID NO: 8] and *Yersinia enterocolitica* [SEQ ID NO: 9]). A consensus sequence derived as described in Example 2 is also depicted [SEQ ID NO: 10]. --

Please replace the paragraph at page 26 lines 19-25 with the following:

-- A published multiple sequence alignment of 124 subtilisin-like serine proteases (Siezen, et al., *Protein Science* 6:501 (1997)) was recreated from a publicly available database (GENBANK), with the sequence labeled baalkp in the database being substituted with that of GG36. GG36 differs from baalkp by only one residue substitution. In baalkp, residue 87 is an asparagine while in GG36 a serine residue is found at the corresponding position. The GG36 amino acid sequence [SEQ ID NO: 1] was used as the reference sequence, and those positions of the alignment for which the GG36 sequence had a gap character were deleted. --

Please replace the paragraph at page 29 lines 1-9 with the following:

-- To create the IRL produced in this example, 7 beta lactamase ampC protein sequences (those from *A. sobria* [SEQ ID NO: 3], *E. coli* [SEQ ID NO: 5], *O. anthropi* [SEQ ID NO: 6], *P. aeruginosa* [SEQ ID NO: 7], *S. enteritidis* [SEQ ID NO: 8] and *Y. enterocolitica* [SEQ ID NO: 9]) were aligned using the default parameters of the program AlignX (a component of Vector NTI Suite 6.0 from Informax, Inc.), which is an implementation of the ClustalW alignment algorithm [Thompson, J. D., D. G. Higgins, et al. (1994). *Nucleic Acids Res* 22(22): 4673-80.]. See Figure 2. The sections of the alignment for which the reference sequence (*E. cloacae*; SEQ ID NO: 4) had a gap character were discarded, as only positions at which the reference sequence contained an amino acid were used. --

A marked up version of the amended paragraphs is provided as an attachment.

Having now complied with all of the requirements of 37 C.F.R. 1.53, applicant respectfully requests that this application be placed upon the files for examination.

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Respectfully submitted,

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